

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Donald R. Mapes, et al.

Examiner: Jeffrey Thomas Barton

Serial No. 10/657,755

Group Art Unit: 1753

Filed : September 9, 2003

Docket No.: 14920.0015 C1

For: PHOTOVOLTAIC ARRAY

U.S. Patent and Trademark Office
Mail Stop Amendment
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

TERMINAL DISCLAIMER UNDER 37 CFR §§3.73(b) AND 1.321(c)

Pursuant to 37 CFR §3.73(b), First Solar US Manufacturing, LLC certifies that it is the assignee of the entire right, title, and interest in the above application by virtue of assignments from the inventors of a priority application of the patent application identified above. The assignments from the inventors of the patent application identified above were recorded at the Patent and Trademark Office at reel/frame number 015472/0751 and 018087/0024. A copy of the recorded assignments are enclosed for reference.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in First Solar US Manufacturing, LLC.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Pursuant to 37 CFR §1.321(c), and to obviate a double patenting rejection, the assignee identified above hereby waives and disclaims the terminal portion of the term of the entire patent to be granted upon the above identified application subsequent to the expiration date of the U.S. Patent 6,617,507 whereby the patent granted on this application and U.S. Patent 6,617,507 will expire on the same day, provided that any patent granted on the above identified application shall be enforceable only for and during such period that it is commonly owned U.S. Patent 6,617,507.

The assignee identified above does not disclaim any terminal part of any patent granted on the above identified application prior to the expiration date of the full statutory term of the U.S. Patent 6,617,507 in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims cancelled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title as stated above. Assignee herein does not disclaim or otherwise affect any part of the U.S. Patent 6,617,507.


This disclaimer runs with any patent granted on the above application and is binding upon the grantee, its successors or assigns.

Please charge any additional fees, or make any credits, to Deposit Account No. 19-4293, referencing **Attorney Docket No. 14920.0015 C1**.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Date: 7-5-07



Harold H. Fox
Reg. No. 41,498

Step toe & Johnson LLP
1330 Connecticut Avenue, NW
Washington, DC 20036-1795
Phone: 202-429-3000
Fax: 202-429-3902

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 10, 2006

HAROLD H. FOX
1330 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20036

PTAS

500137346A***500137346***UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 08/10/2006

REEL/FRAME: 018087/0024

NUMBER OF PAGES: 5

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 14920.0001

ASSIGNOR:

FIRST SOLAR, LLC

DOC DATE: 06/27/2006

ASSIGNEE:

FIRST SOLAR US MANUFACTURING, LLC
28101 CEDAR PARK BOULEVARD
PERRYSBURG, OHIO 43551

SERIAL NUMBER: 10915695

FILING DATE: 08/11/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: APPARATUS AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

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SERIAL NUMBER: 60705544

FILING DATE: 08/05/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: MANUFACTURE OF PHOTOVOLTAIC DEVICES

SERIAL NUMBER: 10915736

FILING DATE: 08/11/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE COATINGS

SERIAL NUMBER: 10704139

FILING DATE: 11/10/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: NON-PLANAR PHOTOCELL

SERIAL NUMBER: 10657755

FILING DATE: 09/09/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: PHOTOVOLTAIC ARRAY

SERIAL NUMBER: 10851652

FILING DATE: 05/24/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: PHOTOVOLTAIC CELL INCLUDING CAPPING LAYER

SERIAL NUMBER: 60675078

FILING DATE: 04/26/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674677

FILING DATE: 04/26/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674676

FILING DATE: 04/26/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674683

FILING DATE: 04/26/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60676293

FILING DATE: 05/02/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR TESTING A PHOTOVOLTAIC MODULE

SERIAL NUMBER: 11284028

FILING DATE: 11/22/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR REMOVING FILM FROM PLANAR SUBSTRATE PERIPHERIES

SERIAL NUMBER: 11380073

FILING DATE: 04/25/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11380079

FILING DATE: 04/25/2006

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

018087/0024 PAGE 3

SERIAL NUMBER: 11380088

FILING DATE: 04/25/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11380095

FILING DATE: 04/25/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11411878

FILING DATE: 04/27/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR TESTING A PHOTOVOLTAIC MODULE

SERIAL NUMBER: 60789580

FILING DATE: 04/06/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR TRANSPORT

SERIAL NUMBER: 09732233

FILING DATE: 12/07/2000

PATENT NUMBER: 6416814

ISSUE DATE: 07/09/2002

TITLE: VOLATILE ORGANOMETALLIC COMPLEXES OF LOWERED REACTIVITY SUITABLE FOR USE IN CHEMICAL VAPOR DEPOSITION OF METAL OXIDE FILMS

SERIAL NUMBER: 10150561

FILING DATE: 05/21/2002

PATENT NUMBER: 6627765

ISSUE DATE: 09/30/2003

TITLE: VOLATILE ORGANOMETALLIC COMPLEXES SUITABLE FOR USE IN CHEMICAL VAPOR DEPOSITIONS ON METAL OXIDE FILMS

SERIAL NUMBER: 09573100

FILING DATE: 05/17/2000

PATENT NUMBER: 6391165

ISSUE DATE: 05/21/2002

TITLE: APPARATUS FOR RECLAIMING CADMIUM AND TELLURIUM FROM CADMIUM TELLURIUM SOLAR CELLS

SERIAL NUMBER: 09928203

FILING DATE: 08/10/2001

PATENT NUMBER: 6559411

ISSUE DATE: 05/06/2003

TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE COATINGS

SERIAL NUMBER: 10425704

FILING DATE: 04/30/2003

PATENT NUMBER: 6919530

ISSUE DATE: 07/19/2005

TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE COATINGS

SERIAL NUMBER: 09931470

FILING DATE: 08/16/2001

PATENT NUMBER: 6719848

ISSUE DATE: 04/13/2004

TITLE: CHEMICAL VAPOR DEPOSITION SYSTEM

SERIAL NUMBER: 09993875

FILING DATE: 11/16/2001

PATENT NUMBER: 6617507

ISSUE DATE: 09/09/2003

SERIAL NUMBER: 07114683 FILING DATE: 10/29/1987
PATENT NUMBER: 4872925 ISSUE DATE: 10/10/1989
TITLE: PHOTOVOLTAIC CELL FABRICATION METHOD AND PANEL MADE THEREBY

019087/0024 PAGE 4

SERIAL NUMBER: 09026140 FILING DATE: 02/19/1998
PATENT NUMBER: 5945163 ISSUE DATE: 08/31/1999
TITLE: APPARATUS AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 09250654 FILING DATE: 02/15/1999
PATENT NUMBER: 6348159 ISSUE DATE: 02/19/2002
TITLE: METHOD AND APPARATUS FOR ETCHING COATED SUBSTRATES

SERIAL NUMBER: 09457062 FILING DATE: 12/07/1999
PATENT NUMBER: 6300593 ISSUE DATE: 10/09/2001
TITLE: APPARATUS AND METHOD FOR LASER SCRIBING A COATED SUBSTRATE

SERIAL NUMBER: 09076191 FILING DATE: 05/12/1998
PATENT NUMBER: 6129779 ISSUE DATE: 10/10/2000
TITLE: RECLAIMING METALLIC MATERIAL FROM AN ARTICLE COMPRISING A NON-METALLIC FRIABLE SUBSTRATE

SERIAL NUMBER: 07114694 FILING DATE: 10/29/1987
PATENT NUMBER: 4865999 ISSUE DATE: 09/12/1989
TITLE: SOLAR CELL FABRICATION METHOD

SERIAL NUMBER: 07881683 FILING DATE: 05/12/1992
PATENT NUMBER: 5248349 ISSUE DATE: 09/28/1993
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT PRODUCT

SERIAL NUMBER: 08300406 FILING DATE: 09/02/1994
PATENT NUMBER: 5470397 ISSUE DATE: 11/28/1995
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT PRODUCT

SERIAL NUMBER: 09026139 FILING DATE: 02/19/1998
PATENT NUMBER: 6037241 ISSUE DATE: 03/14/2000
TITLE: APPARATUS AND METHOD FOR DEPOSITING A SEMICONDUCTOR MATERIAL

SERIAL NUMBER: 09116287 FILING DATE: 07/16/1998
PATENT NUMBER: 6063995 ISSUE DATE: 05/16/2000
TITLE: RECYCLING SILICON PHOTOVOLTAIC MODULES

SERIAL NUMBER: 09256495 FILING DATE: 02/23/1999
PATENT NUMBER: 6058740 ISSUE DATE: 05/09/2000
TITLE: GLASS SUBSTRATE DEPOSITION SYSTEM HAVING LATERAL ALIGNMENT MECHANISM

SERIAL NUMBER: 08783935 FILING DATE: 01/17/1997
PATENT NUMBER: 5772715 ISSUE DATE: 06/30/1998

SERIAL NUMBER: 07307836 FILING DATE: 02/07/1989
PATENT NUMBER: 5016562 ISSUE DATE: 05/21/1991
TITLE: MODULAR CONTINUOUS VAPOR DEPOSITION SYSTEM

SERIAL NUMBER: 08066348 FILING DATE: 05/24/1993
PATENT NUMBER: 5372646 ISSUE DATE: 12/13/1994
TITLE: APPARATUS FOR MAKING PHOTOVOLTAIC DEVICES

018087/0024 PAGE 5

SERIAL NUMBER: 07649310 FILING DATE: 01/30/1991
PATENT NUMBER: 5125608 ISSUE DATE: 06/30/1992
TITLE: PHOTOVOLTAIC PANEL SUPPORT ASSEMBLY

SERIAL NUMBER: 07052991 FILING DATE: 05/22/1987
PATENT NUMBER: 4808462 ISSUE DATE: 02/28/1989
TITLE: SOLAR CELL SUBSTRATE

SERIAL NUMBER: 07095842 FILING DATE: 09/14/1987
PATENT NUMBER: 4769058 ISSUE DATE: 09/06/1988
TITLE: METHOD OF MAKING A SMOOTH SILICA GLASS BODY

SERIAL NUMBER: 07018617 FILING DATE: 02/25/1987
PATENT NUMBER: 4763602 ISSUE DATE: 08/16/1988
TITLE: THIN FILM DEPOSITION APPARATUS INCLUDING A VACUUM TRANSPORT MECHANISM

SERIAL NUMBER: 08515231 FILING DATE: 08/15/1995
PATENT NUMBER: 5536333 ISSUE DATE: 07/16/1996
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT PRODUCT

SERIAL NUMBER: 10434459 FILING DATE: 05/09/2003
PATENT NUMBER: 6959517 ISSUE DATE: 11/01/2005
TITLE: PHOTOVOLTAIC PANEL MOUNTING BRACKET

PAULA MCCRAY, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 20, 2004

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STEPTOE & JOHNSON LLP
HAROLD H. FOX
1330 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20036

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RECORDATION DATE: 06/15/2004

REEL/FRAME: 015472/0751
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MAPES, DONALD R.

DOC DATE: 03/12/2004

ASSIGNOR:

AITCHISON, DAVID J.

DOC DATE: 11/03/2003

ASSIGNOR:

CROSSER, LARRY G.

DOC DATE: 10/10/2003

ASSIGNEE:

FIRST SOLAR, LLC
29101 CEDAR PARK
PERRYSBURG, OHIO 43551

SERIAL NUMBER: 10657755

FILING DATE: 09/09/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: PHOTOVOLTAIC ARRAY

015472/0751 PAGE 2

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-22-2004

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Donald R. MAPES
David J. AITCHISON
Larry G. CROSSER

JUN 15 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 03/12/04; 11/03/03; 10/10/03

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/657,755

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: STEPTOE & JOHNSON LLP

Internal Address: Attn: Docket Administrator - Box USPTO

Street Address: 1330 Connecticut Avenue, NW

City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 11

7. Total Fee (37 CFR 3.41) \$40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

19-4293 (missing fees or deficiencies only)

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9. Signature.

Harold H. Fox, Reg. No. 41,498

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

06/15/04 10:11:00 10100003 10657755

10/01/04

40.00 CP

ASSIGNMENT

For valuable consideration, we, DONALD R. MAPES of Glendale, AZ, DAVID J. AITCHISON of Gilbert, AZ, and LARRY G. CROSSER of Perrysburg, OH, hereby assign to: First Solar, LLC, a corporation of Delaware and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PHOTOVOLTAIC ARRAY, filed September 9, 2003, and assigned U.S. Serial Number 10/657,755, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at 2:25 p.m.

this 12 day of March, 20 04

Donald R. Mapes
DONALD R. MAPES

L.S.

State of Arizona :

: ss.

County of Yavapai :

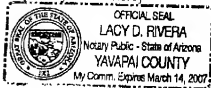
Before me this 12th day of March, 20 04, personally appeared DONALD R. MAPES known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Lacy D. Rivera
Notary Public

My Commission Expires:

March 14 2007

[Notary's Seal Here]

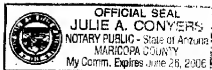


IN WITNESS WHEREOF, I hereto set my hand and seal at Scottsdale,
this 3rd day of November, 2003
David J. Aitchison L.S.
DAVID J. AITCHISON

State of Arizona :
: ss.

County of Maricopa :

Before me this 3rd day of November, 2003, personally
appeared DAVID J. AITCHISON known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.



[Notary's Seal Here]

Julie A. Conyers
Notary Public
My Commission Expires: June 26, 2006

IN WITNESS WHEREOF, I hereto set my hand and seal at PERRYSBURG, OHIO,
this 10 day of OCTOBER, 2003
LARRY G. CROSSER L.S.

State of Ohio :

: ss.

County of Lucas :

Before me this 10th day of October, 2003, personally
appeared LARRY G. CROSSER known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Wednesday M. Szollosi
Notary Public

My Commission Expires:

[Notary's Seal Here]

WEDNESDAY M. SZOLLOSI
ATTORNEY AT LAW
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION HAS NO EXPIRATION
SECTION 147.03 R.C.

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